MDM LOAD IN DIAGNOSTIC STATE (2A-3A)

1. <u>PERFORM PRE-LOAD SANITY CHECK WITH MEMORY MAP AND FILE TO BE LOADED</u>

   | FMT:LOAD:INITIATOR |

   If S/W Load

   √SW_Load_XX_EEPROM_XX - (SW Load Version ID i.e. Rev 2)
   √Memory Location - EPROM
   √SW_Load_EEPROM_Start_Addr - compatible with Memory Map
   √SW_Load_XX_Wd_Count - compatible with Memory Map

   If ADT Load

   > **NOTE**
   > Separate files are required for Loads to non contiguous memory areas, and also for DRAM and EEPROM Loads.

   √Memory Location - EEPROM
   √ADPXX_EEPROM_Start_Addr - compatible with Memory Map
   √ADPXX_Wd_Count - compatible with Memory Map
   √ADPXX_Ver_Id -
   √ADPXX_Cksum -
   √Destination_Device - MDMXX

2. <u>CONFIGURE FOR COMMAND UPLINK</u>

   | TELCOM: TBD |

   If N1-2 is Primary (N1-1 is in Diagnostics)

   √Command_Path - Orbiter/Early Comm
     If uplink path = orbiter
       Normal OIU configuration.
       √OIU_Routing_Code -

     Send Enable RT Device command to enable N1-1 MDM
   √N1-1 = Enable RT
     Send Disable NCS Auto Retry on N1-1
   √N1-2 Auto Retry on N1-1 - Disable

   If N1-1 is Primary (N1-2 is in Diagnostics)

   √Command_Path - Orbiter/Early Comm
     If uplink path = orbiter
       Reconfigure the OIU to RT on Bus 3, BC on Bus 4, and Format 002.
       √OIU_Routing_Code -

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| Send Enable RT Device command to enable N1-2 MDM
√N1-2 = Enable RT
| Send Disable NCS Auto Retry on N1-2
√N1-1 Auto Retry on N1-2 - Disable

If both MDMs are in Diagnostics (Orbiter must present)

Uplink Path = OIU.
Reconfigure the OIU to make bus 3/4 BC to the MDM being loaded
  and use format 002.
√OIU_Routing_Code -

3. <u>SEND LOAD FILE</u>

| FMT:LOAD:INITIATOR |

If SW Load

cmd_SW_Load_XX_Version XX_Uplink (TBD)

If ADT Load

cmd_ADP_Load_XX_Uplink (TBD)

> NOTE
> Send all load **cmd** files. Multiple ADP
> files may be required.

cmd__SW_PT#_Uplink (TBD)
cmd_ADP_XX_cksum _Uplink (TBD)

4. <u>VERIFY COMPLETION OF LOAD</u>

| FMT:LOAD:INITIATOR |

√FMT_Load_Status- 100% complete

5. <u>REINITIALIZE EEPROM</u>
    Go to REINITIALIZE NODE 1 MDMs, all (SODF: TBD).